PRE-TEST IN MATHEMATICS 6

Name	Score			
Teacher	Date			
Direction: Read and solve the gi provided before each number.	ven problems caref	fully. Write the letter	r of your answer on the space	
,				
1. What is 1/5 + 3/5?				
A. 2/5	B. 4/25	C. 4/10	D. 4/5	
2. Add 2/4 and ¾.				
A. 5/4	B. 1 1/4	C. 4/5	D. 1 2/4	
3. Add ½ and 2/5.				
A.3/5	B. 3/10	C. 3/7	D. 9/10	
4. Subtract ¾ from 5/6.	2. 3/ 23	G. 5/ .	2.3,23	
A.1/12	B. 3/6	C. 1/2	D. 8/10	
5. Subtract 7/8 and 3/8.	D. 37 0	C. 1/2	D. 0/ 10	
A. 4/8	B. 1⁄4	C. ½	D. 10/8	
•			-, -	
6.When 8 is multiplied by	= = = = = = = = = = = = = = = = = = = =		1/2	
A. 8 2/3	B. 5 1/3	C. 3 3/8	D. 2 1/3	
7. What is 4/5 is multipli		_	_	
A. 30/50	•	C. 37/50	D. 21/25	
8. When 8 is divided by 1	1/3, the quotient is			
A. 24	B. 25	C. 26	D. 27	
9. In 2/3 ÷ 6/7, the quoti	ent will be			
A. 7/8	B. 7/9	C. 7/10	D. 7/11	
10. The sum of 6 + 0.413 -	+ 0.173 is			
A. 0.6586	B. 6.586	C. 6.865	D. 6.658	
11. Subtract 0.9289 and 0	.7493. The differen	ce is		
A. 0.2216	B. 0.1796	C. 1.6782	D. 0.0796	
12. For her father's birthd				
hundred peso bill was		,		
A. P293.50	B. P286.50	C. P274.50	D. P253.50	
13. It means the comparis			D. 1 233.30	
a. Ratio	b. proportion		ecimal	
			ECITIAI	
14.It is the result of findin	=		recentage	
a. Rate	b. base		ercentage	
15.It is an equation stating				
a. Ratio	b. proportion	c. ba		
16.It is the element usuall			=	
a. Rate	b. base		ercentage	
17. It is the other word/te				
a. Proportion	b. reci		d. fractio	
18. There are 24 boys and	16 girls in Grade V	-Camia. What is the	ratio of girls to boys using fraction	
A. 24/16 B.	16/24	C. 16/40	D. 24/40	
19 . A recipe for pancakes us	•			
	3:2	C. 2:5	D. 5:2	
20. Lei had 🟲 150. She sı	pent 🏲 48 for spagl	hetti and Php12 for	the drinks. What percent of her	
money was left?				
A. 30%	B. 50%	C. 60% D. 4	0%	

21. Kate has a 15% mistake	e in a 60-item test.	How many mistakes d	oes Kate have in the test?	
A. 9	B. 12	C. 15	D. 20	
22. Which of the following	g best describes the	set of integers from –	12 to –4?	
A. {-12, -11, -10, -9, -8, -7,		C. {−12, −8, −6,		
B. {-12, -10, -8, -6, -4}	I	D. {-4, -5,-6,-7,-8,-9,-	-10,-11,-12}	
23. The correct increasing	order of integers o	f 18 -20 -30 17 20 is		
A30, -20, 17, 20, 18	order of integers o	C. 20, 18, 17, -2		
B30, 20, 18, 17, 20		D30, -20, 17,		
24. Find the value of N to	make 6 ³ = N true	D. 30, 20, 17,	10, 20	
A. 18	B. 216	C. 36	D. 261	
25.Which solid figure has p			2.202	
A. Triangular prism	• =	C. Cone	D. Sphere	
26.A is a sol			•	
A. Cylinder	B. Cone	C. Square pyra		
27.Which solid figure has tria		• • •	•	
A. cone	, ,	C. triangular pr		
B. square pyramid		D. triangular py		
28.Which words will comple	ete the statement o	correctly?		
figure is	two-dimensional w	vith length and width v	vhile	
figure is	three-dimensional	with length, width an	d depth.	
A. geometric, spat	ial	C. solid, plane		
B. plane, solid		D. solid, spatial		
29.Which of the following r	eal object represen	t a triangular prism?		
A.	B. ,,,,	. C.	D.	
	***	J		
O	The sales			
30. How many faces does a	=			
A. 0	B. 3	C.1	D. 2	
31. A cube has	faces.			
A. 8	B. 6	C. 10	D. 4	
32.Which of the following v	vill form a square p	yramid?		
	,	¬	_	
A	В.	C	₩ -	
		- <	$ \rangle $	
			/	
33. Which solid figure will b	ne formed using the	net?		
		. Het.		
A. cone				
B. cylinder				
C. pyramid				
D. sphere 34.What is the missing term	n L	in the sequence 1	2 7 15 2	
A. 30	" ()	」 in the sequence 1, B. 31	c. 32	
D. 33		ם. פד	C. J2	
35.What is the formula in f	inding the 5 th term	in the sequence 1 3	7 15?	
A. n + 1	B. n + 2	C. 2n + 1	D. n ² + 1	
36. What is the 10 th term in			₽. ;; · ±	
A. 29	B. 39	C. 49	D. 59	

Direction: Match Column A with column B for the correct formula.

•	

Column A Column B

- 37. Volume of Rectangular prism
- 38. Volume of rectangular pyramid
- 39. Volume of cube.
- 40. Volume of cylinder
- 41. Volume of cone
- 42. Volume of sphere

A.
$$V = \prod r^2 h/3$$

B.
$$V = S^3$$

C.
$$V = 4 \prod r^3/3$$

E.
$$V = \prod r^2 h$$

$$F. V = lwh/3$$

- 43. Calculate the Volume of cylinder if r = 3 cm and h = 5 cm
 - A. $V = 141.3 \text{ cm}^3$
- B. $V = 141.30 \text{ cm}^2$
- C. $V = 141.2 \text{ cm}^3$
- D. $V = 141.2 \text{ cm}^2$
- 44. What is the volume of a cylinder if the radius is 2 m and height is 6 m?
 - A. V = 75.36. m^2
- B. $V = 75.36 \text{ m}^3$
- C. $V = 75.44 \text{ m}^2$
- $DV = 75.44 \text{ m}^3$
- 45. A cylinder is 154 inches high and 3 inches in radius, find its volume.
 - A. 4352.04 inch³
- B. 4352.04 inch²
- C. 4352.40 inch³ D. 4352.40inch².
- 46. Find the volume of a pyramid with a rectangular base measuring 6 cm by 4 cm and height 10 cm.
- B. 80 cm³
- C. 80cm²
- D. 80m³

Answer the questions below using the graph

Family Bautista's Expenses

45 %

Saving

_____ 47. What percent of the salary goes to family savings?

- A. 25%
- B. 45%
- C. 30 %
- D. 0%

48. How much of the budget goes to tuition fee?

- A. Php 9,000.00 B. Php 6,000.00 C.Php 5,000.00 D.Php5.00
- 49. How much is allotted to housing loan?

A. Php 6,000.00 B.Php 5,000.00 C.Php5.00 D.Php 9,000.00

50. Which has the greatest budget?

P20,000.00 monthly budget

25%

Tuition

30 % Housing

Loan

- A. Tuition
- B. Housing loan C. Saving D. None

DIAGNOSTIC TEST IN MATHEMATICS VI

TABLE OF SPECIFICATION

OBJECTIVES	NO. OF	PLACEMENT	PERCENTAGE
Adds and subtracts simple fractions and mixed numbers without or with regrouping. M6NS-la-86	5	1-5	10%
2. Multiplies simple fractions and mixed fractions. M6NS-Ib-90.2	2	6-7	4%
3. Divides simple fractions and mixed fractions. M6NS-Ic-96.2	2	8-9	4%
4. Adds and subtracts decimals and mixed decimals through ten thousandths without or with regrouping. M6NS-Id-106.2	2	10-11	4%
5. Solves 1 or more steps routine and non-routine problems involving addition and/or subtraction of decimals and mixed decimals using appropriate problem solving strategies and tools. M6NS-Id-108.2	1	12	2%
Defines and illustrates the meaning of ratio and proportion using concrete or pictorial models M6NS-IIb-131	5	13-17	10%
Expresses one value as a fraction of another given their ratio and vice versa. M6NS-IIa-129	2	18-19	4%
Solves routine and non-routine problems involving finding the percentage, rate and base using appropriate strategies and tools. M6NS-lid-143	2	20-21	4%
Compares and arranges integers M6NS-IIh-154	2	22-23	4%
Gives the value of numbers expressed in exponential notation M6NS-IIf-147	1	24	2%
Visualizes and describes the different solid figures: cube, prism, pyramid, cylinder, cone, and sphere	3	25-27	6%
Differentiates solid figures from plane figures.	1	28	2%
Illustrates the different solid figures using various concrete and pictorial models.	1	29	2%
Identifies the faces of a solid figure.	2	30-31	4%
Identifies the nets of the following space figures: cube, prism, pyramid, cylinder, cone, and sphere using plane figures.	2	32-33	4%

Formulates the rule in finding the nth term	3	34-36	6%
using different strategies (looking for a			
pattern, guessing and checking, working			
backwards)			
Derives the formula for finding the volume	6	37-42	12%
of cylinders, pyramids, cones and spheres.			
Finds the volume of cylinders, pyramids,	4	43-46	8%
cones and spheres.			
Interpret data presented in a pie graph.	4	47-50	8%
TOTAL	50	1-50	100%
	ITEMS		

KEY TO CORRECT

- 1. D
- 2. A
- 3. D
- 4. A
- 5. C
- 6. B
- 7. B
- 8. A
- 9. B
- 10. B
- 11. B
- 12. A
- 13. A
- 14. C
- 15. B 16. A
- 17. B
- 18. B
- 19. A
- 20. C
- 21. A
- 22. A/B
- 23. D
- 24. B
- 25. A
- 26. B
- 27. D
- 28. B
- 29. B
- 30. A
- 31. B
- 32. C
- 33. D
- 34. B
- 35. C
- 36. A
- 37. D
- 38. F
- 39. B 40.E
- 41. A

42. C

43. A

44. B

45. A

46. B

47. B

48. C

49. A

50. C